

TRIP REPORT:
SIGHTINGS OF BRANDED STELLER SEA LIONS IN SOUTHEAST ALASKA
14 – 20 May, 16 June – 2 July, and 26 – 31 August, 2003

Alaska Department of Fish and Game - Steller Sea Lion Program
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Steller sea lion (*Eumetopias jubatus*) rookeries and haulouts throughout Southeast Alaska (SEA) were surveyed during May, June-July, and August to observe branded Steller sea lions (SSL), estimate numbers of animals on shore, and record entanglements. Haulouts and rookeries were surveyed from Glacier Bay in the north to the Forrester Island complex near the U.S. – Canadian Border in the south (Figure 1).

VESSELS

May and August trips: Alaska Department of Fish and Game vessel *R/V Medeia*, Captain Russell Sandstrom.
June-July trip: *F/V Big Valley*, Captain Gary Edwards.

PARTICIPANTS (all trips combined)

Alaska Department of Fish and Game: Tom Gelatt, Lauri Jemison, Jamie King, Dennis McAllister, Grey Pendleton, Ken Pitcher, Kim Raum-Suryan, Mike Rehberg, Bob Small, Greg Snedgen, Vicki Stegall, Marina Telouchkina, and Betsy Wilson. NOAA: Mike Sigler (Auke Bay Lab) and Charlie Stinchcomb (SW Fisheries Science Center); University of British Columbia: Dom Tollit and Olivier Cheneval.

Table 1. BRAND-RESIGHTING SUMMARY: Steller sea lion brand observations during brand-resighting trips in May, June-July, and August 2003. Table summarizes, by branding location and branding year, number of unique brands observed during each trip.

Brand location (branding year)	May 2003	June-July 2003	August 2003	Total May – Aug 2003
“F” Forrester complex (1994/1995)	16	89	34	107
“F” Forrester complex (2001)	25	56	18	70
“H” Hazy Islands (2001)	22	47	23	65
“F” Forrester complex (2002)	20	32	16	49
“W” White Sisters (2002)	28	32	27	57
“V” Graves Rock (2002)	9	15	14	22
“=” (2001) – branded as older pups or juveniles	6	26	8	28
“=” (2002) – branded as older pups/juveniles	3	16	3	15
“F” Forrester complex (2003)			55	55
“H” Hazy Islands (2003)			35	35
“E” Fish Island, PWS (2001)	1	2	0	3
“J” Seal Rocks, PWS (2001)	1	2	2	3
“X” Sugarloaf Island (2000 & 2002)	3	4	3	6
“T” Marmot Island (2000 & 2002)	3	4	4	7
“R” Rogue Reef, Oregon (2001)	1	2	1	2
TOTAL	138	327	243	524

METHODS

Pups were branded at their natal rookeries in June-July of 1994, 1995, 2001, 2002, and 2003 at the Forester Island complex; in 2001 and 2003 at the Hazy Islands; and in 2002 at White Sisters and Graves Rock. Older pups and juveniles were branded at rookeries and haulouts in SEA during May and August 2001 and June and November 2002.

The research crew observed SSLs from small boats (17' and 22' Boston Whalers and a 22' Safeboat) at each haulout or rookery. Sites were approached at a slow speed and initially surveyed from a distance of >100 meters to allow sea lions to become accustomed to the boat. A count was made of all SSL that could be seen. This count is likely low as some animals were difficult or impossible to see, especially those in low-lying areas. Observers used binoculars (8X to 14X) to conduct counts and read brands. When a branded animal was sighted, the boat approached closer to the haulout and digital photographs (Nikon D1X digital camera) were taken of the animal. When possible, each branded animal was photographed several times and once out of the field, one to four of the best photographs were saved. When a branded animal was observed the following data were recorded: brand number, brand quality, brand verification check (observer reads and records brand number, reads brand a second time and verifies the brand number written down), status (*e.g.*, female with pup, pup suckling), tag color and number, and comments. When possible, sex and age class (pup, juvenile, adult) were recorded. At some sites it was difficult to adequately survey all animals from the boat; when conditions allowed, observers went ashore and surveyed from a high point above the haulout or rookery.

Additional data collected at each site included: date, location, observers, photographer, start and end times, weather data, a count of non-pups, and a count of pups (except at larger rookeries, where accurate pup counts were especially difficult and time consuming to obtain; Table 2). We recorded and photographed sea lions with injuries, rope/net entanglements, or ingested fishing gear and recorded sightings of other pinnipeds and cetaceans.

RESULTS

During June-July, we attempted to survey every haulout and rookery in SEA where animals were likely to be hauled out. During the May and August trips, which were of shorter duration, we focused efforts on the four main rookeries and the outer coast haulouts that are not easily surveyed during fall/winter months. Steller sea lions were observed at all 17 sites surveyed in May, 26 of 28 sites surveyed in June-July, and 12 of 13 sites surveyed in August (Table 2). Excluding sites with <10 animals, branded animals were seen at all but one of the sites where animals were present. Estimates of the number of pups and non-pups on shore are provided in Table 2. Counting animals was not the primary purpose of these surveys and these counts, made from skiffs offshore, are likely low and are presented to provide general information on the number of animals present.

The number of unique brands observed on each trip varied with 138 seen in May, 327 seen in June-July, and 243 seen in August. Overall, we observed 524 unique brands during our May – August observations. The May and August trips were similar in duration and number of sites visited. The greater number of unique brands seen in August can in part be attributed to the 90 observations of recently-branded pups, branded in late June-early July by ADF&G, and hence not available for sighting until the August trip.

Brands

Adults: branded as pups in 1994 & 1995 at Forrester Island complex ("F")

We made 107 observations of unique adult brands during our surveys, representing 13% of the total number branded in 1994 and 1995 (Table 3, Appendix I). Many more unique adult brands were seen during the June-July trip (89) than during May (16) or August (34). During May, fewer adults were hauled out on rookeries than later in the year. For example, during two days of surveys at all sites within the Forrester Island complex, only three branded animals (all adults) were seen in May, whereas in June-July, 37 branded animals (33 adults and 4 juveniles) were seen in one day.

Twenty-six adult females were nursing or with a pup or juvenile, most at rookeries: Forrester Island complex (15), Hazy Islands (6), Graves Rock (2), and Biali Rock (2); one adult female was seen with a juvenile at Timbered Island. Six branded adult males were defending territories. Five of these males were at Hazy Islands (three 9-year olds, one 8-year old, and one 8 or 9-year old animal with an unreadable brand), and one 9 year-old male was at the Forrester Island complex. Only one adult was seen on all three trips: F517, a female, was seen at S. Marble Island in May, on Biali Rocks in June (nursing a pup or juvenile), and again at Biali Rocks in August.

Two-year-olds: branded as pups in 2001 at natal rookery: F - Forrester complex and H- Hazy Islands

Overall we observed 70 unique Forrester 2 year-olds and 65 unique Hazy Island 2 year-olds, representing 25% and 31%, respectively, of the pups branded at those sites in 2001 (Table 3, Appendix II). Five of the Forrester 2 year-olds and four of the Hazy Island 2 year-olds were seen suckling or with a female. Twelve of the 2 year-olds were resighted on each trip; half of these were seen at the same haulout on all three occasions. One male, H11, was observed on four days during the June-July trip at three different sites: the Forrester complex (North Rocks) on 21 June, Cape Bartolome on 23 June, and at the Hazy Islands on 26 and 27 June.

“=” brands - branded as older pups and juveniles in SEA during May & August 2001 and June & November 2002

We recorded 43 observations of unique = brands, 37% and 39%, respectively, of those branded in 2001 and 2002 (Table 3, Appendix III). Five of the = branded animals were seen suckling, two of which were 3 year-olds. Both 3 year-olds were seen suckling in June and August at different sites (one observation was made by the Lowrie Island camp crew). A sixth = branded animal was seen lying on an adult female but not seen nursing.

Yearlings - branded June-July 2002 at natal rookery: F - Forrester, W - White Sisters, and V – Graves Rocks

We observed 128 branded yearlings. Of these, 49 were branded at the Forrester complex (35% of animals branded there in June 2002), 57 at White Sisters (45% of animals branded at that site), and 22 at Graves Rocks (44% of animals branded at that site) (Table 3, Appendix IV). Overall, we observed 34 (27%) of these yearlings either nursing or with a female. Eight yearlings were seen on all three resight trips. Of the 22 unique Graves Rocks brands observed, all but one was seen at either Graves Rock or S. Marble Island.

Pups - branded June-July 2003 at natal rookery: F - Forrester complex and H- Hazy Islands

During the August trip, we resighted 35 (35%) of the pups branded at Hazy Islands in June-July 2003 and 55 (19%) of the pups branded at the Forrester complex in June-July 2003 (Appendix V). Of those pups observed, 17% were seen either suckling or with an adult female. All pups were sighted at their natal rookery.

“Other” brands - branded as pups at Sugarloaf and Marmot islands in 2000 & 2002, Fish Island and Seal Rocks in 2001, and Rogue Reef (Oregon) in 2001

We observed 19 individuals that were branded at sites in the western stock: seven from Marmot Island, three from Seal Rocks, six from Sugarloaf Island, and three from Fish Island (Table 1, Appendix VI). All but three animals were seen at White Sisters, Graves Rock, or S. Marble Island. Eight of the 19 brands seen in 2003 were also observed in SEA during our brand-resight trips in 2002. Two animals originally branded at Rogue Reef in Oregon were seen at Cape Addington.

Entanglements

We recorded 25 sea lions entangled with some type of fishing gear, rope, or packing bands (Table 2). The greatest number of entangled animals, 17, was seen during our June-July trip. To estimate entanglement rates, we used counts of animals at haulouts and smaller rookeries (Graves Rock and Biali Rocks) and excluded the larger rookeries (Forrester Island complex, Hazy Islands, White Sisters) where animals are difficult to count and the numbers recorded are rough estimates at best. Using those criteria, entanglement rates were 0.07% in May, 0.19% in June, and 0.18% in August. It should be noted that these are crude estimates only; our surveys focused on resighting branded animals and some entangled animals may not have been seen. Our June and August estimated entanglement rates are similar to those seen during our June 2002 (0.18%) and August 2002 (0.16%) brand-resight trips.

Other Pinniped Observations

We observed three other pinniped species (harbor seals, *Phoca vitulina*, northern fur seals, *Callorhinus ursinus*, and California sea lions, *Zalophus californianus*). Harbor seals were seen at Hazy Islands and Little Island. One to three California sea lions were observed at Cape Addington, White Sisters, and Graves Rock. Northern fur seals were seen at Hazy Islands in June and August. In August, at least 17 fur seals were present on Hazy Islands, including four pups and two adult males.

Table 2. Steller sea lion observations in Southeast Alaska from May - August 2003. Date; location; estimated number of non-pups, pups, and animals disturbed; total number of brands seen; and number/type of entanglement (SAM = subadult male, juv=juvenile, AM=adult male, AF=adult female).

Date	Location	Estimated number of non-pups	Estimated number of pups	Estimated number disturbed	Total number brands seen	Number & type of entanglement
14 May	Forrester Island Complex	364		7	2	1 ring-neck
15 May	Forrester Island Complex	235		0	1	
16 May	Cape Bartolome	135	0	3	3	
	Cape Addington	548	0	200	13	1 ring-neck
	Timbered Is.	345	0	45	6	
17 May	Hazy Islands	215			no survey	
	Coronation Is. – Aats Pt.	1	0	0	0	
	Cape Ommaney	165	0	10	1	
	Sea Lion Rock–Puffin Bay	65		0	2	
18 May	Biali Rocks	252		75	17	
	Jacob Rocks	160	0		2	
	Kaiuchali Is.	86		5	1	
	Sea Lion Is.	163			8	
	White Sisters	250		200	13	
19 May	White Sisters	521	2	50	19	
	Cape Cross	55		46	1	
	Graves Rock	387	0	100	11	
20 May	Graves Rock	281	0	20	10	1 SAM ring-neck
	Inian Is.	159	0	100	6	
	South Marble Is.	378	0	75	35	
16 Jun	SW Brothers	443	0	200 ^a	41	
	Sail Is.	0	0			
	Sunset Is.	375	0	200 ^a	21	
	Yasha Is.	220	0	95 ^a	7	
18 Jun	Easterly Is.	160	0	100 ^a	6	
	Grindall Is.	5	0	5	0	
19 Jun	West Rock-Dixon Entr.	465	0	375 ^a	18	
	Pt. Marsh	6	0	0	0	
	Pt. Cornwallis	2	0	0	0	
20 Jun	Forrester Island Complex	2310	696	62	37	1 ring-neck
	Petrel Is.	71	0	23	1	
21 Jun	Forrester Island Complex	2194	590	43	30	

Date	Location	Estimated number of non-pups	Estimated number of pups	Estimated number disturbed	Total number brands seen	Number & type of entanglement
22 Jun	Forrester Island Complex				25	2 ring-necks
	Wolf Rocks	83	0	7	1	
	Cape Addington	445	4	25 ^a	11	1 flasher
23 Jun	Timbered Is.	172	0	160 ^a	2	
	Cape Addington	638	5	40 ^a	16	2 ring-necks
	Cape Bartolome	240	0	240 ^a	8	
	Wolf Rocks	95	0	6	2	
26 Jun	Hazy Islands	1569			25	
27 Jun	Hazy Islands				15	
28 Jun	Wooded Is.–C. Ommaney	36	0	0	2	
	Cape Ommaney	147	1	1	2	1 flasher
	Sea Lion Rock–Puffin Bay	76	0	0		
29 Jun	Biali Rocks	364	29	15 ^a	15	
	Jacob Rocks	131	0	25	2	
	Kaiuchali Is.	35	0	2	2	
	Sea Lion Is.	206	0	3	13	
	White Sisters			75 ^a	8	1 flasher
30 Jun	White Sisters	557	174	15	9	
1 Jul	White Sisters				15	
	Cape Cross	0	0			
1 Jul	Graves Rock	701	99	200 ^a	25	2 flashers (incl. 1 juv), 1 ring-neck
2 Jul	Graves Rock				18	1 flasher (juv), 1 ring-neck
	Inian Is.	400	0	75	15	1 ring-neck
	South Marble Is.	375	0	375 ^a	23	3 flashers (incl. 1 female)
26 Aug	Forrester Island Complex				77 (2 tags)	1 AF ring-neck
	Petrel Is.	110	0		1	
27 Aug	Cape Addington				12	1 AM ring-neck
	Hazy Islands	593	111	80	54 (3 tags)	
28 Aug	Biali Rocks	362	50	100	14	
	Jacob Rocks	3	0		0	
	Kaiuchali Is.	73	0		3	
	Sea Lion Is.	42	0	18	0	
	White Sisters	700	225	75	26	

Date	Location	Estimated number of non-pups	Estimated number of pups	Estimated number disturbed	Total number brands seen	Number & type of entanglement
29 Aug	White Sisters	902			23	
	Graves Rock	493		20	16	1 ring-neck
30 Aug	Graves Rock	500	60	20	13	1 AM ring-neck, 1 AM flasher
	Inian Is.	0	0			
	South Marble Is.	410	0	40	22	
31 Aug	Little Is.	190			7	

^a Disturbance due to scat collection by University of British Columbia researchers. Rookeries were not disturbed during scat collections.

Table 3. Steller sea lion brand observations in Southeast Alaska during brand-resighting surveys May, June-July, and August 2003. Table summarizes, by branding location and branding year, the number of animals initially branded and the percentage of those brands seen during each resight trip. F brands: pups branded at their natal rookery, Forrester Island complex, in 1994, 1995, 2001, and 2003; H brands: pups branded at their natal rookery, Hazy Islands, in 2001 and 2003; = brands: pups and juveniles branded during capture operations at rookeries and haulouts in Southeast Alaska during 2001 (May and August) and 2002 (June and November); W brands: pups branded at their natal rookery, White Sisters, in June 2002; and V brands: pups branded at their natal rookery, Graves Rock, in June 2002.

	Number branded	% seen May 2003	% seen June 2003	% seen Aug. 2003	% seen May-Aug. 2003
F (1994/1995)	799	2.0	11.1	4.3	13
F (2001)	286	8.7	19.6	6.3	25
H (2001)	212	10.4	22.2	10.8	31
F (2002)	141	14.2	22.7	11.3	35
W (2002)	127	22.0	25.2	21.3	45
V (2002)	50	18.0	30.0	28.0	44
= (2001)	76	7.9	34.2	10.5	37
= (2002)	39	7.7	41.0	7.7	39
F (2003)	291			18.9	19
H (2003)	101			34.7	35

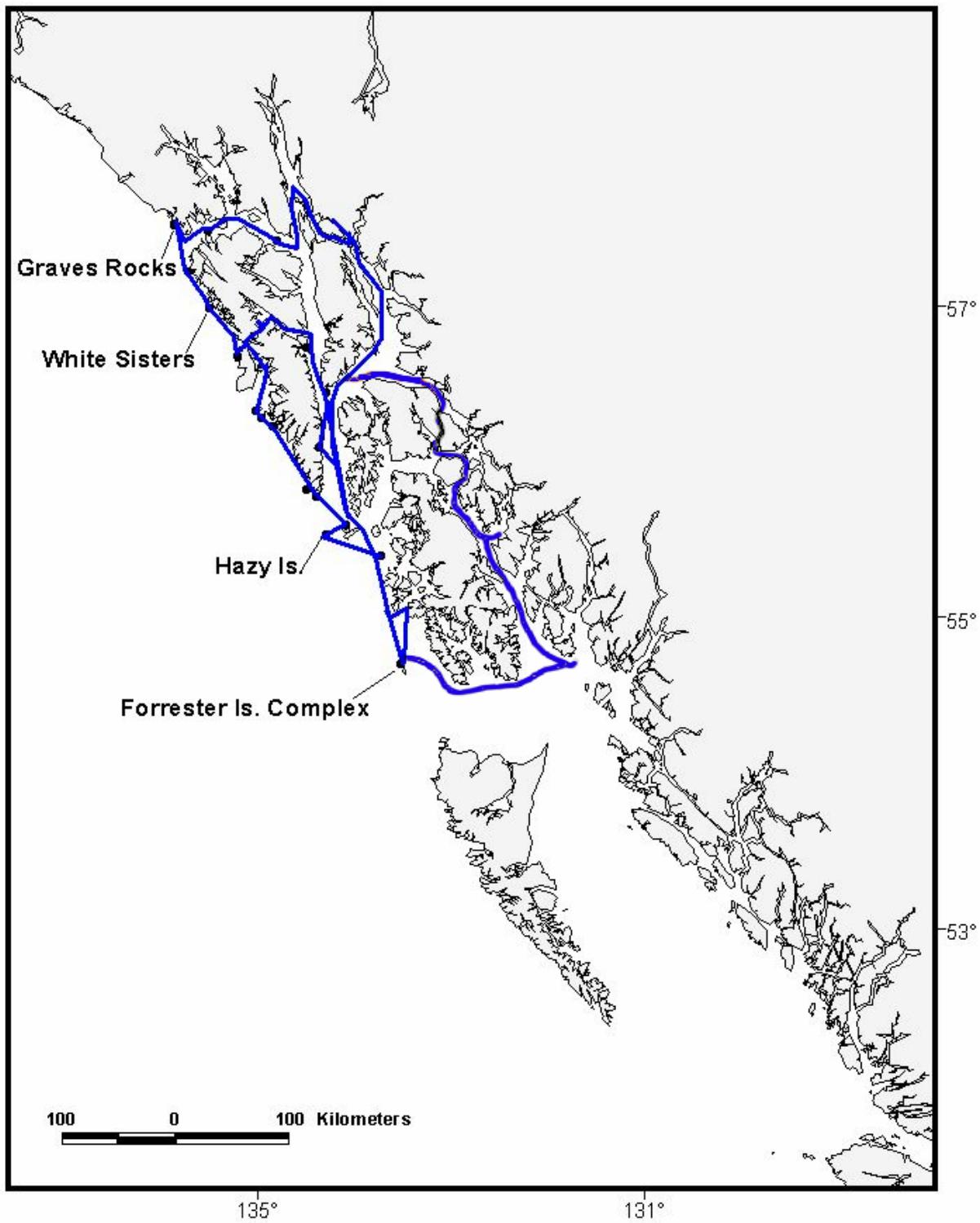


Figure 1. General trackline of brand-resight cruises aboard the *R/V Medeia* in May and August 2003 and aboard the *F/V Big Valley* in June-July 2003. Dots depict haulouts and rookeries visited during May and August; additional sites were visited in June-July. Rookeries are labeled.

Appendix I. Steller sea lions branded as pups at Forrester Island complex during 1994 and 1995 and resighted during May - August 2003. Brand number, resight location, resight date, sex (F = female, M = male), age (yr), association (assoc'n.) of female (S = suckling pup or juvenile, SP = suckling pup, WP = with pup, WJ = with juvenile) and male (T = territorial), and if photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Date	Sex	Age (yr)	Assoc'n	Photo
F229	West Rock - Forrester	21-Jun-03	M	9		Y
F232	Hazy Is.	27-Jun-03	F	9	WP	Y
F232	Cape Addington	27-Aug-03	F	9		Y
F241	Little Is.	31-Aug-03	M	9		Y
F270	Biali Rocks	29-Jun-03	M	9		Y
F291	Imian Is.	02-Jul-03	M	9		Y
F301	Cape Addington	23-Jun-03	F	9		Y
F341	White Sisters	29-Jun-03	F	9		Y
F341	Graves Rocks	29-Aug-03	F	9		Y
F341	Graves Rocks	30-Aug-03	F	9		Y
F343	Northeast Rock-Forrester	21-Jun-03	M	9		Y
F344	Hazy Is.	27-Jun-03	F	9		Y
F349	White Sisters	18-May-03	F	9		Y
F349	White Sisters	19-May-03	F	9		Y
F349	Cape Horn Rocks - Forrester	20-Jun-03	F	9		Y
F349	Cape Horn Rocks - Forrester	21-Jun-03	F	9		Y
F349	Cape Horn Rocks - Forrester	22-Jun-03	F	9		Y
F351	West Rock - Forrester	22-Jun-03	M	9		Y
F361	West Rock - Dixon Entrance	19-Jun-03	M	9		Y
F377	Hazy Is.	26-Jun-03	M	9		Y
F377	Hazy Is.	27-Jun-03	M	9	T	Y
F388	Sea Lion Rocks - Forrester	20-Jun-03	F	9		Y
F388	Sea Lion Rocks - Forrester	21-Jun-03	F	9		Y
F392	West Rock - Forrester	20-Jun-03	M	9		Y
F396	North Rocks - Forrester	20-Jun-03	F	9		Y
F396	North Rocks - Forrester	22-Jun-03	F	9	WP	Y
F396	North Rocks - Forrester	26-Aug-03	F	9		Y
F404	East Rocks - Forrester	20-Jun-03	F	9		Y
F404	East Rocks - Forrester	21-Jun-03	F	9		Y
F404	East Rocks - Forrester	22-Jun-03	F	9		N
F431	Biali Rocks	18-May-03	F	9		Y
F442	North Rocks - Forrester	21-Jun-03	F	9	WP	Y
F446	White Sisters	28-Aug-03	M	9		Y
F446	White Sisters	29-Aug-03	M	9		Y
F447	West Rock - Forrester	20-Jun-03	M	9		Y
F447	West Rock - Forrester	21-Jun-03	M	9		Y
F463	Cape Horn Rocks - Forrester	22-Jun-03	F	9		Y
F473	East Rocks - Forrester	20-Jun-03	F	9		Y

Appendix I. Continued.

Brand Number	Resight Location	Date	Sex	Age (yr)	Assoc'n	Photo
F473	East Rocks - Forrester	22-Jun-03	F	9		Y
F509	Sea Lion Rocks - Forrester	22-Jun-03	F	9		Y
F517	S. Marble Is.	20-May-03	F	9		Y
F517	Biali Rocks	29-Jun-03	F	9	S	Y
F517	Biali Rocks	28-Aug-03	F	9		Y
F522	Sea Lion Rocks - Forrester	20-Jun-03	F	9		Y
F5261	Sea Lion Rocks - Forrester	20-Jun-03	F	9	WP	Y
F5261	Sea Lion Rocks - Forrester	22-Jun-03	F	9		Y
F528	Sea Lion Rocks - Forrester	20-Jun-03	F	9	WP	Y
F5351	Sea Lion Rocks - Forrester	14-May-03	F	9		Y
F5351	Sea Lion Rocks - Forrester	21-Jun-03	F	9		Y
F5351	Sea Lion Rocks - Forrester	22-Jun-03	F	9		Y
F538	Sea Lion Rocks - Forrester	20-Jun-03	F	9		Y
F538	Sea Lion Rocks - Forrester	22-Jun-03	F	9		Y
F539	Hazy Is.	26-Jun-03	M	9		Y
F539	Hazy Is.	27-Jun-03	M	9	T	Y
F551	White Sisters	19-May-03	M	9		Y
F561	Cape Horn Rocks - Forrester	20-Jun-03	F	9	WP	Y
F561	Cape Horn Rocks - Forrester	21-Jun-03	F	9	WP	Y
F561	Sea Lion Rocks - Forrester	26-Aug-03	F	9	SP	Y
F565	Cape Horn Rocks - Forrester	20-Jun-03	F	9	WP	Y
F565	Cape Horn Rocks - Forrester	26-Aug-03	F	9		Y
F576	Cape Horn Rocks - Forrester	20-Jun-03	M	9		Y
F579	North Rocks - Forrester	21-Jun-03	M	9	SP	Y
F579	North Rocks - Forrester	22-Jun-03	M	9		N
F587	Cape Horn Rocks - Forrester	20-Jun-03	M	9	T	Y
F587	Cape Horn Rocks - Forrester	21-Jun-03	M	9	T	Y
F593	Cape Horn Rocks - Forrester	22-Jun-03	M	9		Y
F612	Cape Horn Rocks - Forrester	22-Jun-03	F	8		Y
F613	Cape Horn Rocks - Forrester	26-Aug-03	F	8		Y
F614	West Rock - Forrester	20-Jun-03	M	8		Y
F614	West Rock - Forrester	21-Jun-03	M	8		Y
F621	East Rocks - Forrester	26-Aug-03	F	8		Y
F623	Sea Lion Rocks - Forrester	20-Jun-03	F	8		Y
F623	Sea Lion Rocks - Forrester	22-Jun-03	F	8		Y
F625	Biali Rocks	29-Jun-03	F	8	WP	Y
F625	Hazy Is.	27-Aug-03	F	8		Y
F637	Cape Addington	16-May-03	M	8		Y
F637	Cape Addington	22-Jun-03	M	8		Y
F637	Cape Addington	23-Jun-03	M	8		Y
F641	Cape Ommaney	28-Jun-03	F	8		Y
F6461	Cape Addington	22-Jun-03	M	8		Y

Appendix I. Continued.

Brand Number	Resight Location	Date	Sex	Age (yr)	Assoc'n	Photo
F6461	Cape Addington	23-Jun-03	M	8		Y
F6461	Cape Addington	27-Aug-03	M	8		Y
F677	East Rocks - Forrester	20-Jun-03	F	8		Y
F682	West Rock - Forrester	20-Jun-03	M	8		Y
F686	Cape Horn Rocks - Forrester	20-Jun-03	F	8	WP	Y
F686	Cape Horn Rocks - Forrester	21-Jun-03	F	8		N
F686	Cape Horn Rocks - Forrester	22-Jun-03	F	8		Y
F686	Cape Horn Rocks - Forrester	26-Aug-03	F	8		Y
F687	Wolf Rock	23-Jun-03	F	8		Y
F706	North Rocks - Forrester	26-Aug-03	M	8		Y
F732	Hazy Is.	26-Jun-03	M	8	T	Y
F732	Hazy Is.	27-Jun-03	M	8	T	Y
F737	West Rock - Forrester	20-Jun-03	M	8		Y
F737	West Rock - Forrester	21-Jun-03	M	8		Y
F744	North Rocks - Forrester	20-Jun-03	F	8	WP	Y
F744	North Rocks - Forrester	22-Jun-03	F	8	WP	Y
F746	West Rock - Forrester	15-May-03	M	8		Y
F746	West Rock - Forrester	21-Jun-03	M	8		Y
F766	White Sisters	19-May-03	F	8		Y
F768	Graves Rocks	02-Jul-03	M	8		Y
F772	Little Is.	31-Aug-03	M	8		Y
F792	Cape Horn Rocks - Forrester	20-Jun-03	F	8		Y
F792	Cape Addington	23-Jun-03	F	8		Y
F805	Sea Lion Is.	29-Jun-03	M	8		Y
F825	North Rocks - Forrester	21-Jun-03	F	8	S	Y
F825	North Rocks - Forrester	26-Aug-03	F	8		Y
F826	Cape Bartolome	23-Jun-03	F	8		Y
F827	North Rocks - Forrester	20-Jun-03	F	8		N
F827	North Rocks - Forrester	22-Jun-03	F	8		Y
F833	Hazy Is.	26-Jun-03	F	8	WP	Y
F833	Hazy Is.	27-Aug-03	F	8		Y
F836	North Rocks - Forrester	21-Jun-03	F	8		Y
F854	East Rocks - Forrester	20-Jun-03	F	8		Y
F858	White Sisters	18-May-03	F	8		Y
F858	White Sisters	28-Aug-03	F	8		Y
F860	Wolf Rock	23-Jun-03	F	8		Y
F860	Cape Horn Rocks - Forrester	26-Aug-03	F	8		Y
F861	North Rocks - Forrester	20-Jun-03	F	8		Y
F861	North Rocks - Forrester	21-Jun-03	F	8	WP	Y
F861	North Rocks - Forrester	22-Jun-03	F	8		Y
F861	North Rocks - Forrester	26-Aug-03	F	8		Y
F863	Hazy Is.	27-Aug-03	F	8		Y

Appendix I. Continued.

Brand Number	Resight Location	Date	Sex	Age (yr)	Assoc'n	Photo
F869	Cape Addington	22-Jun-03	M	8		Y
F869	Cape Addington	23-Jun-03	M	8		Y
F875	Hazy Is.	26-Jun-03	F	8	WP	Y
F882	East Rocks - Forrester	26-Aug-03	F	8		Y
F885	North Rocks - Forrester	20-Jun-03	F	8		Y
F899	Hazy Is.	26-Jun-03	M	8		N
F908	Petrel Is. - Forrester	20-Jun-03	M	8		Y
F908	Forrester Is.	21-Jun-03	M	8		Y
F908	Forrester Is.	22-Jun-03	M	8		Y
F908	Sea Lion Rocks - Forrester	26-Aug-03	M	8		Y
F910	Sea Lion Rocks - Forrester	21-Jun-03	F	8	WP	Y
F912	Hazy Is.	27-Aug-03	M	8		Y
F941	Sea Lion Rocks - Forrester	20-Jun-03	F	8		Y
F943	Yasha Is.	17-Jun-03	M	8		Y
F953	White Sisters	29-Aug-03	M	8		Y
F954	Sea Lion Rocks - Forrester	21-Jun-03	M	8		Y
F954	Cape Addington	27-Aug-03	M	8		Y
F964	Hazy Is.	26-Jun-03	F	8	WP	Y
F964	Hazy Is.	27-Aug-03	F	8		Y
F966	Sea Lion Rocks - Forrester	22-Jun-03	F	8		Y
F971	Forrester Is.	26-Aug-03	F	8		Y
F975	Cape Addington	23-Jun-03	M	8		Y
F980	Hazy Is.	26-Jun-03	F	8	WP	Y
F980	Hazy Is.	27-Jun-03	F	8		Y
F982	Sea Lion Rock - Puffin Bay	17-May-03	F	8		Y
F982	Hazy Is.	26-Jun-03	F	8	WP	Y
F983	Hazy Is.	27-Aug-03	F	8		Y
F988	Cape Horn Rocks - Forrester	20-Jun-03	F	8	WP	Y
F988	Cape Horn Rocks - Forrester	21-Jun-03	F	8		Y
F988	Cape Horn Rocks - Forrester	22-Jun-03	F	8		Y
F996	Cape Horn Rocks - Forrester	20-Jun-03	F	8		Y
F996	Cape Horn Rocks - Forrester	22-Jun-03	F	8		Y
F996	Sea Lion Rocks - Forrester	26-Aug-03	F	8		Y
F298 UNSURE	Hazy Is.	26-Jun-03		9		Y
F313 UNSURE	Hazy Is.	26-Jun-03		9	T	Y
F313 UNSURE	Hazy Is.	27-Jun-03		9	T	Y
F3BOWTIE	North Rocks - Forrester	22-Jun-03		9		N
F3BOWTIE	North Rocks - Forrester	21-Jun-03		9		Y
F3BOWTIE	Timbered Is.	16-May-03		9	WJ	Y
F4M UNREADABLE	Sea Lion Rocks - Forrester	26-Aug-03		9		Y
F4 UNSURE	West Rock - Forrester	14-May-03		9		N
F404 UNSURE	Hazy Is.	26-Jun-03		9		Y

Appendix I. Continued.

Brand Number	Resight Location	Date	Sex	Age (yr)	Assoc'n	Photo
F427 UNREADABLE	North Rocks - Forrester	20-Jun-03		9		Y
F427 UNREADABLE	North Rocks - Forrester	21-Jun-03		9	WP	Y
F441 UNSURE	White Sisters	28-Aug-03		9		Y
F441FI UNSURE	Cape Addington	16-May-03		9		Y
F441WI UNSURE	White Sisters	19-May-03		9		Y
F453 UNSURE	White Sisters	29-Jun-03		9		Y
F544 UNSURE	Cape Addington	16-May-03		9		Y
F544 UNSURE	Cape Horn Rocks - Forrester	22-Jun-03		9	WP	Y
F5K UNREADABLE	White Sisters	28-Aug-03		9		Y
F634 UNSURE	S. Marble Is.	30-Aug-03		8		Y
F701 UNSURE	Graves Rocks	19-May-03		8		Y
F701 UNSURE	Graves Rocks	20-May-03		8		Y
F72RAINBOW	Northeast Rock-Forrester	20-Jun-03		8		Y
F72RAINBOW	Northeast Rock-Forrester	21-Jun-03		8		Y
F741 UNREADABLE	West Rock - Forrester	20-Jun-03		8		Y
F741 UNREADABLE	Forrester Is.	21-Jun-03		8		Y
F786 UNSURE	Graves Rocks	01-Jul-03		8	WP	Y
F786 UNSURE	Graves Rocks	02-Jul-03		8	SP	Y
F82 UNSURE	Sea Lion Is.	18-May-03		8		Y
F863 UNREADABLE	Hazy Is.	26-Jun-03		8		Y
F863 UNREADABLE	Hazy Is.	27-Jun-03		8		Y
F944 UNSURE	Forrester Is.	21-Jun-03		8		Y
F971 UNSURE	Sea Lion Rocks - Forrester	21-Jun-03		8		Y
FM5 UNREADABLE	Hazy Is.	26-Jun-03			T	Y

Appendix II. Steller sea lions branded as pups at Forrester Island complex (F) and Hazy Islands (H) during 2001 and resighted May - August 2003. Brand number, resight location, resight date, association (assoc'n; WF = with female, S = suckling), and whether a photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Date	Assoc'n	Photo
F1000	Sea Lion Is.	18-May-03		Y
F1000	Sea Lion Is.	29-Jun-03		Y
F1000	Biali Rocks	28-Aug-03		Y
F1001	Biali Rocks	18-May-03		Y
F1006	Southwest Brothers Is.	17-Jun-03		Y
F1007	Sunset Pt/Is.	17-Jun-03		Y
F1008	White Sisters	19-May-03		Y
F1008	Sea Lion Is.	29-Jun-03		Y
F1008	Kaiuchali Is.	28-Aug-03		Y
F1016	White Sisters	19-May-03		Y
F1016	Cape Addington	27-Aug-03		Y
F1020	West Rock - Dixon Entrance	19-Jun-03		Y
F1022	Biali Rocks	29-Jun-03	WF	Y
F1028	Inian Is.	02-Jul-03		Y
F1033	Graves Rocks	19-May-03		Y
F1033	Biali Rocks	29-Jun-03		Y
F1034	Graves Rocks	01-Jul-03		Y
F1035	Cape Addington	22-Jun-03		Y
F1035	Cape Addington	23-Jun-03		Y
F1041	Biali Rocks	18-May-03		Y
F1041	Biali Rocks	28-Aug-03		Y
F1047	Biali Rocks	18-May-03		Y
F1054	Yasha Is.	17-Jun-03		N
F1065	Jacob Rock	18-May-03		Y
F1069	West Rock - Dixon Entrance	19-Jun-03		Y
F1077	Southwest Brothers Is.	17-Jun-03		Y
F1078	Easterly Island	18-Jun-03		Y
F1084	White Sisters	18-May-03		Y
F1084	White Sisters	19-May-03		Y
F1090	Inian Is.	02-Jul-03		Y
F1090	Graves Rocks	29-Aug-03		Y
F1090	Graves Rocks	30-Aug-03		Y
F1098	White Sisters	28-Aug-03		Y
F1098	White Sisters	29-Aug-03		Y
F1099	White Sisters	19-May-03		Y
F1100	Kaiuchali Is.	18-May-03		Y
F1106	West Rock - Dixon Entrance	19-Jun-03		Y
F1107	Cape Ommaney	28-Jun-03		Y
F1109	Cape Addington	22-Jun-03		Y
F1109	Cape Addington	23-Jun-03		Y
F1109	Cape Addington	27-Aug-03		Y

Appendix II. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
F1114	Biali Rocks	18-May-03		Y
F1114	Biali Rocks	29-Jun-03		Y
F1116	West Rock - Dixon Entrance	19-Jun-03		Y
F1117	Graves Rocks	01-Jul-03		Y
F1117	Graves Rocks	02-Jul-03		Y
F1124	Southwest Brothers Is.	17-Jun-03		Y
F1129	Hazy Is.	26-Jun-03		Y
F1129	Hazy Is.	27-Jun-03		Y
F1132	Cape Addington	23-Jun-03		Y
F1135	S. Marble Is.	02-Jul-03		N
F1139	Cape Bartolome	23-Jun-03		Y
F1139	Cape Addington	27-Aug-03		Y
F1142	Southwest Brothers Is.	17-Jun-03		Y
F1144	West Rock -Dixon Entrance	19-Jun-03		Y
F1147	Cape Addington	16-May-03		Y
F1147	Cape Addington	22-Jun-03		Y
F1149	Timbered Is.	16-May-03		Y
F1149	North Rocks - Forrester	20-Jun-03		Y
F1149	North Rocks - Forrester	21-Jun-03	WF	Y
F1149	North Rocks - Forrester	22-Jun-03		N
F1151	White Sisters	01-Jul-03		Y
F1151	White Sisters	29-Aug-03		Y
F1152	S. Marble Is.	20-May-03		Y
F1152	S. Marble Is.	02-Jul-03		Y
F1159	West Rock - Dixon Entrance	19-Jun-03		Y
F1162	Biali Rocks	29-Jun-03		Y
F1162	Kaiuchali Is.	28-Aug-03		Y
F1170	S. Marble Is.	02-Jul-03		Y
F1176	Biali Rocks	28-Aug-03		Y
F1178	Biali Rocks	18-May-03		Y
F1178	Jacob Rock	29-Jun-03		Y
F1186	Biali Rocks	18-May-03		Y
F1186	Biali Rocks	29-Jun-03		Y
F1186	Biali Rocks	28-Aug-03	WF	Y
F1189	West Rock - Dixon Entrance	19-Jun-03		Y
F1190	Southwest Brothers Is.	17-Jun-03		Y
F1192	Yasha Is.	17-Jun-03		Y
F1206	S. Marble Is.	20-May-03		Y
F1206	S. Marble Is.	02-Jul-03		Y
F1206	S. Marble Is.	30-Aug-03		Y
F1218	North Rocks - Forrester	20-Jun-03		Y
F1221	Sunset Pt/Is.	17-Jun-03		Y

Appendix II. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
F1224	Biali Rocks	18-May-03		Y
F1224	Biali Rocks	28-Aug-03		Y
F1228	Graves Rocks	20-May-03		Y
F1232	Easterly Island	18-Jun-03		Y
F1238	West Rock - Dixon Entrance	19-Jun-03		Y
F1240	Timbered Is.	16-May-03		Y
F1240	Cape Bartolome	23-Jun-03		Y
F1240	Cape Addington	27-Aug-03	S	Y
F1241	West Rock - Dixon Entrance	19-Jun-03		Y
F1245	Southwest Brothers Is.	17-Jun-03		Y
F1246	Biali Rocks	18-May-03		Y
F1246	Biali Rocks	29-Jun-03		Y
F1246	Biali Rocks	28-Aug-03		Y
F1253	Cape Addington	22-Jun-03	S	Y
F1257	West Rock - Dixon Entrance	19-Jun-03		Y
F1261	Sea Lion Rocks - Forrester	20-Jun-03		Y
F1270	West Rock - Dixon Entrance	19-Jun-03		Y
F1274	Cape Bartolome	23-Jun-03		Y
F1274	Cape Addington	27-Aug-03		Y
F1277	Sea Lion Is.	29-Jun-03		Y
F1277	Biali Rocks	28-Aug-03		Y
F1284	Easterly Island	18-Jun-03		Y
F1013 UNSURE	Cape Addington	16-May-03		Y
F1054 UNSURE	Sea Lion Rock - Puffin Bay	17-May-03		Y
F1191 UNSURE	S. Marble Is.	20-May-03		Y
H1	Inian Is.	20-May-03		Y
H1	Inian Is.	02-Jul-03		Y
H1	Graves Rocks	29-Aug-03		Y
H3	White Sisters	28-Aug-03		Y
H4	White Sisters	29-Aug-03		Y
H8	Sunset Pt/Is.	17-Jun-03		Y
H9	S. Marble Is.	20-May-03		Y
H9	White Sisters	28-Aug-03		Y
H11	North Rocks - Forrester	21-Jun-03	WF	Y
H11	Cape Bartolome	23-Jun-03		Y
H11	Hazy Is.	26-Jun-03		Y
H11	Hazy Is.	27-Jun-03		Y
H13	Graves Rocks	01-Jul-03		Y
H13	Graves Rocks	30-Aug-03		Y
H16	Hazy Is.	26-Jun-03		Y
H19	White Sisters	19-May-03		Y

Appendix II. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
H20	Sunset Pt/Is.	17-Jun-03		Y
H26	Sunset Pt/Is.	17-Jun-03		Y
H27	Southwest Brothers Is.	17-Jun-03		Y
H31	Timbered Is.	23-Jun-03		Y
H35	S. Marble Is.	20-May-03		Y
H41	Sea Lion Is.	18-May-03		Y
H41	Biali Rocks	28-Aug-03		Y
H46	White Sisters	18-May-03		Y
H46	White Sisters	29-Jun-03		Y
H46	White Sisters	30-Jun-03		N
H47	Graves Rocks	01-Jul-03		Y
H47	Graves Rocks	02-Jul-03		Y
H48	S. Marble Is.	20-May-03		Y
H48	S. Marble Is.	02-Jul-03		Y
H50	Cape Addington	22-Jun-03		Y
H50	Cape Addington	23-Jun-03		Y
H51	Inian Is.	02-Jul-03		Y
H51	White Sisters	29-Aug-03		Y
H53	Easterly Island	18-Jun-03		Y
H60	Southwest Brothers Is.	17-Jun-03		Y
H70	Southwest Brothers Is.	17-Jun-03		Y
H71	Biali Rocks	18-May-03		Y
H71	Kaiuchali Is.	29-Jun-03		Y
H71	Biali Rocks	28-Aug-03		Y
H73	Hazy Is.	27-Aug-03	S	Y
H75	Biali Rocks	18-May-03		Y
H75	Biali Rocks	29-Jun-03		Y
H75	Biali Rocks	28-Aug-03		Y
H80	Southwest Brothers Is.	17-Jun-03		Y
H81	Cape Addington	27-Aug-03		Y
H85	S. Marble Is.	30-Aug-03		Y
H92	White Sisters	28-Aug-03		N
H94	S. Marble Is.	20-May-03		Y
H94	S. Marble Is.	02-Jul-03		Y
H96	Southwest Brothers Is.	17-Jun-03		Y
H109	Southwest Brothers Is.	17-Jun-03		N
H112	Southwest Brothers Is.	17-Jun-03		Y
H118	Sea Lion Is.	29-Jun-03		Y
H123	S. Marble Is.	30-Aug-03		Y
H127	Sunset Pt/Is.	17-Jun-03		Y
H130	Southwest Brothers Is.	17-Jun-03		Y

Appendix II. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
H131	Southwest Brothers Is.	17-Jun-03		Y
H136	S. Marble Is.	20-May-03		Y
H136	S. Marble Is.	30-Aug-03		Y
H142	Southwest Brothers Is.	17-Jun-03		Y
H142	Hazy Is.	27-Aug-03		Y
H145	Southwest Brothers Is.	17-Jun-03		Y
H149	White Sisters	28-Aug-03		Y
H149	White Sisters	29-Aug-03		Y
H157	Sunset Pt/Is.	17-Jun-03		Y
H157	Wooded Is. – C. Ommaney	28-Jun-03		Y
H162	S. Marble Is.	20-May-03		Y
H162	S. Marble Is.	02-Jul-03		Y
H163	Biali Rocks	18-May-03		Y
H164	White Sisters	19-May-03		N
H164	White Sisters	29-Jun-03		Y
H164	White Sisters	01-Jul-03	S	Y
H164	White Sisters	28-Aug-03		Y
H164	White Sisters	29-Aug-03	S	Y
H167	West Rock - Dixon Entrance	19-Jun-03		Y
H171	Cape Addington	16-May-03		Y
H171	Cape Addington	22-Jun-03		Y
H171	Cape Addington	23-Jun-03		Y
H171	North Rocks - Forrester	26-Aug-03		Y
H179	Biali Rocks	29-Jun-03		Y
H179	Biali Rocks	28-Aug-03		Y
H183	S. Marble Is.	20-May-03		Y
H183	S. Marble Is.	02-Jul-03		Y
H183	S. Marble Is.	30-Aug-03		Y
H184	Biali Rocks	29-Jun-03		Y
H186	Hazy Is.	27-Aug-03		Y
H187	Southwest Brothers Is.	17-Jun-03		Y
H191	Graves Rocks	20-May-03		Y
H192	White Sisters	18-May-03		Y
H192	White Sisters	19-May-03		Y
H193	Jacob Rock	29-Jun-03		Y
H200	Southwest Brothers Is.	17-Jun-03		Y
H201	Hazy Is.	26-Jun-03	S	Y
H201	Hazy Is.	27-Jun-03	S	Y
H204	Hazy Is.	26-Jun-03		Y
H206	S. Marble Is.	20-May-03		Y
H206	S. Marble Is.	02-Jul-03		Y

Appendix II. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
H211	Yasha Is.	17-Jun-03		N
H212	S. Marble Is.	20-May-03		Y
H212	S. Marble Is.	02-Jul-03		Y
H212	S. Marble Is.	30-Aug-03		Y
H15 UNSURE	S. Marble Is.	02-Jul-03		Y
H73 UNSURE	White Sisters	19-May-03		Y
H158 UNSURE	Timbered Is.	16-May-03		Y

Appendix III. Steller sea lions branded as pups or juveniles at haulouts and rookeries in Southeast Alaska during 2001 (May and August) and 2002 (June and November) and resighted May – August 2003. Brand number, resight location, resight date, sex (F = female, M = male), date branded, association (assoc'n; WF = with female, S = suckling), and whether a photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Resight Date	Sex	Date Branded	Assoc'n	Photo
=169	Sunset Pt/Is.	17-Jun-03	M	03-May-01		Y
=171	Sea Lion Is.	29-Jun-03	M	04-May-01		Y
=172	Yasha Is.	17-Jun-03	M	04-May-01		N
=175	Southwest Brothers Is.	17-Jun-03	M	04-May-01		Y
=176	Southwest Brothers Is.	17-Jun-03	F	05-May-01		Y
=176	Hazy Is.	26-Jun-03	F	05-May-01		Y
=177	Southwest Brothers Is.	17-Jun-03	M	05-May-01		Y
=180	Southwest Brothers Is.	17-Jun-03	M	05-May-01		Y
=184	Wooded Is. – C. Ommaney	28-Jun-03	M	06-May-01		Y
=186	Sunset Pt/Is.	17-Jun-03	F	06-May-01		Y
=186	Hazy Is.	26-Jun-03	F	06-May-01		Y
=188	Southwest Brothers Is.	17-Jun-03	M	07-May-01		Y
=189	Sunset Pt/Is.	17-Jun-03	M	07-May-01		Y
=194	Sunset Pt/Is.	17-Jun-03	F	08-May-01		Y
=195	Inian Is.	02-Jul-03	F	08-May-01		Y
=195	White Sisters	28-Aug-03	F	08-May-01		Y
=196	Inian Is.	02-Jul-03	M	08-May-01		Y
=196	Little Is.	31-Aug-03	M	08-May-01		Y
=201	Hazy Is.	27-Jun-03	F	10-May-01		Y
=202	S. Marble Is.	20-May-03	M	10-May-01		Y
=202	S. Marble Is.	30-Aug-03	M	10-May-01		Y
=203	Yasha Is.	17-Jun-03	M	10-May-01		N
=205	Inian Is.	02-Jul-03	M	11-May-01		Y
=205	White Sisters	28-Aug-03	M	11-May-01		Y
=205	White Sisters	29-Aug-03	M	11-May-01		Y
=206	Graves Rocks	01-Jul-03	F	10-Aug-01		Y
=206	Graves Rocks	02-Jul-03	F	10-Aug-01		Y
=207	Graves Rocks	01-Jul-03	F	10-Aug-01		Y
=209	White Sisters	30-Jun-03	F	10-Aug-01		N
=209	Graves Rocks	30-Aug-03	F	10-Aug-01	S	Y
=212	S. Marble Is.	20-May-03	M	11-Aug-01		Y
=212	S. Marble Is.	02-Jul-03	M	11-Aug-01		Y
=215	Biali Rocks	18-May-03	M	12-Aug-01		Y
=215	Southwest Brothers Is.	17-Jun-03	M	12-Aug-01		Y
=220	Southwest Brothers Is.	17-Jun-03	M	12-Aug-01		Y
=223	Biali Rocks	29-Jun-03	M	13-Aug-01	S	Y
=223	East Rocks - Forrester	26-Aug-03	M	13-Aug-01		Y
=224	Cape Ommaney	17-May-03	F	13-Aug-01		Y
=224	Biali Rocks	28-Aug-03	F	13-Aug-01		Y

Appendix III. Continued

Brand Number	Resight Location	Resight Date	Sex	Date Branded	Assoc'n	Photo
=228	White Sisters	18-May-03	F	14-Aug-01		Y
=228	White Sisters	30-Jun-03	F	14-Aug-01	WF	Y
=245	Sunset Pt/Is.	17-Jun-03	F	17-Aug-01	S	Y
=245	Sea Lion Rocks - Forrester	26-Aug-03	F	17-Aug-01	S	Y
=324	Sunset Pt/Is.	17-Jun-03	M	17-May-02		Y
=341	Sunset Pt/Is.	17-Jun-03	F	18-Jun-02		Y
=344	Southwest Brothers Is.	17-Jun-03	M	19-Jun-02		Y
=345	Sunset Pt/Is.	17-Jun-03	F	19-Jun-02		Y
=348	Southwest Brothers Is.	17-Jun-03	M	20-Jun-02		Y
=349	Southwest Brothers Is.	17-Jun-03	F	20-Jun-02	WF	Y
=349	Hazy Is.	27-Aug-03	F	20-Jun-02	S	Y
=352	Cape Bartolome	16-May-03	M	20-Jun-02		Y
=352	Southwest Brothers Is.	17-Jun-03	M	20-Jun-02		Y
=354	Sunset Pt/Is.	17-Jun-03	F	21-Jun-02		Y
=357	Sunset Pt/Is.	17-Jun-03	M	21-Jun-02		Y
=359	Timbered Is.	16-May-03	F	21-Jun-02		Y
=359	Hazy Is.	26-Jun-03	F	21-Jun-02		Y
=359	Hazy Is.	27-Jun-03	F	21-Jun-02		Y
=379	Southwest Brothers Is.	17-Jun-03	M	14-Nov-02		Y
=385	Southwest Brothers Is.	17-Jun-03	M	16-Nov-02		Y
=385	Hazy Is.	26-Jun-03	M	16-Nov-02		Y
=391	Southwest Brothers Is.	17-Jun-03	M	17-Nov-02		Y
=398	White Sisters	18-May-03	M	21-Nov-02	S	Y
=398	White Sisters	19-May-03	M	21-Nov-02		Y
=398	White Sisters	01-Jul-03	M	21-Nov-02	S	Y
=403	S. Marble Is.	02-Jul-03	M	22-Nov-02		Y
=403	S. Marble Is.	30-Aug-03	M	22-Nov-02		Y
=196 UNSURE	S. Marble Is.	20-May-03				Y
=359 UNSURE	Hazy Is.	27-Aug-03				Y
=382 UNSURE	Sunset Pt/Is.	17-Jun-03				Y

Appendix IV. Steller sea lions branded as pups at Forrester Island complex (F), White Sisters (W), and Graves Rock (V) during 2002 and resighted May - August 2003. Brand number, resight location, resight date, association (assoc'n; WF = with female, S = suckling), and whether a photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Date	Assoc'n	Photo
F2002	White Sisters	18-May-03		Y
F2003	Inian Is.	02-Jul-03		Y
F2004	S. Marble Is.	20-May-03	S	Y
F2004	S. Marble Is.	30-Aug-03		Y
F2005	Hazy Is.	27-Jun-03		N
F2010	Little Is.	31-Aug-03		Y
F2011	Cape Addington	16-May-03		Y
F2017	Biali Rocks	29-Jun-03		Y
F2019	Little Is.	31-Aug-03		Y
F2022	White Sisters	19-May-03	S	Y
F2022	White Sisters	29-Aug-03		Y
F2027	Cape Horn Rocks - Forrester	20-Jun-03		Y
F2028	Graves Rocks	19-May-03		Y
F2028	Graves Rocks	20-May-03	S	Y
F2028	White Sisters	28-Aug-03		Y
F2028	White Sisters	29-Aug-03		Y
F2031	Hazy Is.	26-Jun-03		Y
F2031	Hazy Is.	27-Aug-03	S	Y
F2034	West Rock - Dixon Entrance	19-Jun-03		Y
F2042	Biali Rocks	18-May-03		Y
F2042	White Sisters	28-Aug-03		Y
F2042	White Sisters	29-Aug-03		Y
F2046	Southwest Brothers Is.	17-Jun-03		Y
F2047	Cape Bartolome	23-Jun-03		Y
F2048	Timbered Is.	23-Jun-03	WF	Y
F2049	Cape Bartolome	16-May-03		Y
F2050	Cape Addington	16-May-03		Y
F2050	Cape Addington	22-Jun-03		Y
F2052	Cape Bartolome	23-Jun-03		Y
F2063	Cape Addington	16-May-03		Y
F2063	Cape Bartolome	23-Jun-03		Y
F2066	Cape Bartolome	16-May-03	S	Y
F2073	White Sisters	19-May-03	S	Y
F2073	White Sisters	30-Jun-03		Y
F2073	White Sisters	01-Jul-03		Y
F2076	West Rock - Dixon Entrance	19-Jun-03		Y
F2078	Southwest Brothers Is.	17-Jun-03		Y
F2079	West Rock - Dixon Entrance	19-Jun-03		Y
F2081	West Rock - Dixon Entrance	19-Jun-03		Y
F2087	Easterly Island	18-Jun-03		Y
F2092	Yasha Is.	17-Jun-03		Y

Appendix IV. Continued

Brand Number	Resight Location	Date	Assoc'n	Photo
F2093	White Sisters	30-Jun-03		Y
F2093	White Sisters	01-Jul-03	WF	N
F2094	White Sisters	18-May-03		Y
F2094	Graves Rocks	30-Aug-03		Y
F2095	Hazy Is.	27-Aug-03		Y
F2097	Biali Rocks	18-May-03		Y
F2097	Biali Rocks	29-Jun-03		Y
F2097	Biali Rocks	28-Aug-03		Y
F2100	Cape Addington	22-Jun-03		N
F2100	Cape Addington	23-Jun-03	WF	Y
F2102	Jacob Rock	18-May-03		Y
F2105	West Rock - Dixon Entrance	19-Jun-03		Y
F2108	Southwest Brothers Is.	17-Jun-03		Y
F2111	S. Marble Is.	20-May-03		Y
F2111	S. Marble Is.	02-Jul-03		Y
F2114	Southwest Brothers Is.	17-Jun-03		Y
F2115	Easterly Island	18-Jun-03		Y
F2116	Cape Addington	16-May-03		Y
F2118	Cape Addington	16-May-03		Y
F2119	Timbered Is.	16-May-03		Y
F2119	Sea Lion Is.	29-Jun-03		Y
F2127	Little Is.	31-Aug-03		Y
F2128	Hazy Is.	26-Jun-03		Y
F2128	Hazy Is.	27-Jun-03		Y
F2128	Hazy Is.	27-Aug-03		Y
F2132	Cape Addington	16-May-03		Y
F2132	Cape Addington	23-Jun-03		Y
F2132	Sea Lion Rocks - Forrester	26-Aug-03		Y
F2136	Cape Addington	23-Jun-03		N
F2136	Cape Addington	27-Aug-03		Y
F2137	Southwest Brothers Is.	17-Jun-03		Y
F2138	Cape Addington	27-Aug-03		Y
F2078 UNSURE	White Sisters	28-Aug-03		Y
F208 UNSURE	White Sisters	19-May-03	S	Y
F209 UNSURE	White Sisters	01-Jul-03		Y
V2	S. Marble Is.	02-Jul-03		Y
V2	Graves Rocks	29-Aug-03		Y
V2	Graves Rocks	30-Aug-03		Y
V3	S. Marble Is.	02-Jul-03		Y
V3	Graves Rocks	29-Aug-03		Y
V3	Graves Rocks	30-Aug-03		Y

Appendix IV. Continued

Brand Number	Resight Location	Date	Assoc'n	Photo
V4	S. Marble Is.	20-May-03		Y
V4	Graves Rocks	01-Jul-03		Y
V4	Graves Rocks	02-Jul-03		Y
V5	S. Marble Is.	30-Aug-03	WF	Y
V7	S. Marble Is.	20-May-03		Y
V9	Graves Rocks	29-Aug-03		Y
V10	Graves Rocks	02-Jul-03		Y
V10	Graves Rocks	29-Aug-03		Y
V13	Graves Rocks	30-Aug-03		Y
V14	S. Marble Is.	20-May-03		Y
V14	S. Marble Is.	30-Aug-03	S	Y
V15	S. Marble Is.	02-Jul-03	S	Y
V15	S. Marble Is.	30-Aug-03		Y
V16	Graves Rocks	19-May-03		Y
V16	Graves Rocks	02-Jul-03	WF	Y
V19	S. Marble Is.	20-May-03		Y
V19	S. Marble Is.	02-Jul-03		Y
V19	S. Marble Is.	30-Aug-03	S	Y
V25	Graves Rocks	01-Jul-03		Y
V25	Graves Rocks	02-Jul-03		Y
V25	Graves Rocks	29-Aug-03		Y
V25	Graves Rocks	30-Aug-03		Y
V26	Graves Rocks	20-May-03		N
V26	Graves Rocks	01-Jul-03		Y
V26	Graves Rocks	02-Jul-03		Y
V29	Graves Rocks	01-Jul-03		Y
V29	Graves Rocks	02-Jul-03		Y
V29	Graves Rocks	29-Aug-03		Y
V30	S. Marble Is.	20-May-03	S	Y
V30	Graves Rocks	01-Jul-03		Y
V30	Graves Rocks	02-Jul-03		Y
V30	Graves Rocks	29-Aug-03		Y
V30	Graves Rocks	30-Aug-03	S	Y
V39	Inian Is.	02-Jul-03		Y
V42	Graves Rocks	01-Jul-03		Y
V42	Graves Rocks	02-Jul-03		Y
V44	S. Marble Is.	30-Aug-03		Y
V45	S. Marble Is.	20-May-03		Y
V 6 UNSURE	Graves Rocks	19-May-03		Y
V1 UNSURE	Graves Rocks	20-May-03		Y
V16 UNSURE	Graves Rocks	01-Jul-03		Y
V23 UNSURE	Graves Rocks	01-Jul-03	S	Y

Appendix IV. Continued

Brand Number	Resight Location	Date	Assoc'n	Photo
V29 UNSURE	Graves Rocks	20-May-03		Y
V33 UNSURE	Sunset Pt/Is.	17-Jun-03		Y
V36 UNSURE	Graves Rocks	30-Aug-03		Y
W2	White Sisters	18-May-03		Y
W3	White Sisters	29-Jun-03		N
W3	White Sisters	28-Aug-03		Y
W5	Southwest Brothers Is.	17-Jun-03		Y
W6	S. Marble Is.	02-Jul-03		Y
W8	Graves Rocks	19-May-03		Y
W8	Inian Is.	02-Jul-03		Y
W14	Sea Lion Is.	18-May-03		Y
W14	Sea Lion Is.	29-Jun-03		Y
W15	Sea Lion Is.	18-May-03		Y
W15	Sea Lion Is.	29-Jun-03		Y
W18	Sunset Pt/Is.	17-Jun-03		Y
W21	Sea Lion Is.	29-Jun-03		Y
W24	Inian Is.	20-May-03		Y
W26	White Sisters	28-Aug-03		Y
W31	Graves Rocks	01-Jul-03	S	Y
W31	Graves Rocks	02-Jul-03		Y
W38	White Sisters	28-Aug-03		Y
W39	Sea Lion Is.	18-May-03		Y
W39	Sea Lion Is.	29-Jun-03		Y
W42	White Sisters	18-May-03	S	Y
W42	White Sisters	29-Aug-03		Y
W48	Graves Rocks	19-May-03		Y
W48	Graves Rocks	01-Jul-03	S	Y
W48	Graves Rocks	29-Aug-03		Y
W50	White Sisters	19-May-03	S	Y
W50	White Sisters	29-Jun-03		Y
W50	White Sisters	30-Jun-03	S	Y
W55	White Sisters	29-Aug-03		Y
W57	Sunset Pt/Is.	17-Jun-03		Y
W59	White Sisters	19-May-03		Y
W59	White Sisters	29-Jun-03		Y
W59	White Sisters	01-Jul-03	WF	Y
W59	White Sisters	29-Aug-03		Y
W61	White Sisters	28-Aug-03		Y
W61	White Sisters	29-Aug-03		Y
W64	Inian Is.	02-Jul-03		Y

Appendix IV. Continued

Brand Number	Resight Location	Date	Assoc'n	Photo
W65	White Sisters	30-Jun-03		Y
W65	White Sisters	01-Jul-03	S	Y
W68	Inian Is.	02-Jul-03		Y
W68	White Sisters	28-Aug-03		Y
W68	White Sisters	29-Aug-03		Y
W73	S. Marble Is.	20-May-03		Y
W75	Graves Rocks	30-Aug-03		Y
W76	White Sisters	30-Jun-03	S	N
W76	White Sisters	01-Jul-03		Y
W77	Inian Is.	20-May-03		Y
W77	Graves Rocks	01-Jul-03	S	Y
W77	Graves Rocks	02-Jul-03	WF	N
W77	Graves Rocks	29-Aug-03	S	Y
W79	S. Marble Is.	02-Jul-03	S	Y
W79	S. Marble Is.	30-Aug-03		Y
W80	Inian Is.	20-May-03		Y
W86	White Sisters	30-Jun-03		Y
W87	Sea Lion Is.	18-May-03		Y
W87	White Sisters	29-Aug-03	S	Y
W93	White Sisters	01-Jul-03	WF	Y
W93	White Sisters	28-Aug-03		Y
W95	S. Marble Is.	20-May-03		Y
W95	S. Marble Is.	30-Aug-03		Y
W96	White Sisters	28-Aug-03		N
W96	White Sisters	29-Aug-03		Y
W97	Graves Rocks	01-Jul-03		Y
W97	Graves Rocks	02-Jul-03	S	Y
W97	Graves Rocks	29-Aug-03		Y
W98	Inian Is.	02-Jul-03		Y
W99	Sea Lion Is.	18-May-03		Y
W99	Sea Lion Is.	29-Jun-03	S	Y
W100	Southwest Brothers Is.	17-Jun-03		Y
W102	White Sisters	19-May-03	S	Y
W106	S. Marble Is.	20-May-03		Y
W106	S. Marble Is.	30-Aug-03		Y
W113	White Sisters	18-May-03		Y
W113	White Sisters	01-Jul-03		Y
W114	Little Is.	31-Aug-03		Y
W117	S. Marble Is.	20-May-03		Y

Appendix IV. Continued

Brand Number	Resight Location	Date	Assoc'n	Photo
W120	Inian Is.	20-May-03		Y
W120	White Sisters	01-Jul-03	WF	Y
W121	S. Marble Is.	30-Aug-03		Y
W124	Graves Rocks	20-May-03		Y
W124	Graves Rocks	01-Jul-03		Y
W124	Graves Rocks	02-Jul-03		Y
W124	White Sisters	28-Aug-03		Y
W125	Hazy Is.	27-Aug-03	S	Y
W13 UNSURE	White Sisters	28-Aug-03		Y
W19 UNSURE	White Sisters	01-Jul-03		Y
W53 UNSURE	S. Marble Is.	20-May-03		Y
W64 UNSURE	S. Marble Is.	20-May-03		Y
W68 UNSURE	Cape Cross	19-May-03		Y
W74 UNSURE	S. Marble Is.	20-May-03		Y
W74 UNSURE	S. Marble Is.	02-Jul-03		Y
W81 UNSURE	White Sisters	29-Aug-03		Y
W86 UNSURE	White Sisters	01-Jul-03	S	Y
W86 UNSURE	White Sisters	29-Aug-03		Y
W89 UNSURE	S. Marble Is.	30-Aug-03		Y
W9_ UNSURE	Graves Rocks	20-May-03		Y
W93 UNSURE	White Sisters	29-Jun-03		Y
W96 UNSURE	S. Marble Is.	20-May-03		Y
W123 UNSURE	Biali Rocks	18-May-03		Y
W123 UNSURE	Kaiuchali Is.	29-Jun-03		Y
W129 UNSURE	Kaiuchali Is.	28-Aug-03		Y

Appendix V. Steller sea lions branded as pups at Forrester Island complex (F) and Hazy Islands (H) during 2003 and resighted 26-31 August 2003. Brand number, resight location, resight date, association (assoc'n; WF = with female, S = suckling), and whether a photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Date	Assoc'n	Photo
F4	Sea Lion Rocks - Forrester	26-Aug-03		Y
F5	Cape Horn Rocks - Forrester	26-Aug-03		Y
F7	Cape Horn Rocks - Forrester	26-Aug-03	S	Y
F10	Cape Horn Rocks - Forrester	26-Aug-03		Y
F13	Cape Horn Rocks - Forrester	26-Aug-03		Y
F15	Cape Horn Rocks - Forrester	26-Aug-03		Y
F22	Cape Horn Rocks - Forrester	26-Aug-03		Y
F24	Cape Horn Rocks - Forrester	26-Aug-03		Y
F26	Cape Horn Rocks - Forrester	26-Aug-03		Y
F42	Cape Horn Rocks - Forrester	26-Aug-03		Y
F66	Cape Horn Rocks - Forrester	26-Aug-03	S	Y
F67	Cape Horn Rocks - Forrester	26-Aug-03		Y
F68	Cape Horn Rocks - Forrester	26-Aug-03		Y
F69	Cape Horn Rocks - Forrester	26-Aug-03		Y
F70	Cape Horn Rocks - Forrester	26-Aug-03		Y
F76	Cape Horn Rocks - Forrester	26-Aug-03		Y
F127	Cape Horn Rocks - Forrester	26-Aug-03		Y
F145	North Rocks - Forrester	26-Aug-03		Y
F146	Cape Horn Rocks - Forrester	26-Aug-03		Y
F152	North Rocks - Forrester	26-Aug-03		Y
F158	North Rocks - Forrester	26-Aug-03		Y
F162	North Rocks - Forrester	26-Aug-03	WF	Y
F165	North Rocks - Forrester	26-Aug-03		Y
F168	North Rocks - Forrester	26-Aug-03		Y
F169	Cape Horn Rocks - Forrester	26-Aug-03		Y
F179	North Rocks - Forrester	26-Aug-03		Y
F196	East Rocks - Forrester	26-Aug-03		Y
F197	North Rocks - Forrester	26-Aug-03	WF	N
F198	North Rocks - Forrester	26-Aug-03		Y
F199	North Rocks - Forrester	26-Aug-03		Y
F3017	North Rocks - Forrester	26-Aug-03		Y
F3026	Cape Horn Rocks - Forrester	26-Aug-03		Y
F3033	North Rocks - Forrester	26-Aug-03		Y
F3035	North Rocks - Forrester	26-Aug-03		Y
F3036	North Rocks - Forrester	26-Aug-03		Y
F3040	North Rocks - Forrester	26-Aug-03		N
F3052	North Rocks - Forrester	26-Aug-03		Y
F3054	North Rocks - Forrester	26-Aug-03		Y
F3058	North Rocks - Forrester	26-Aug-03		Y
F3061	North Rocks - Forrester	26-Aug-03		Y
F3075	North Rocks - Forrester	26-Aug-03		Y

Appendix V. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
F3076	North Rocks - Forrester	26-Aug-03		Y
F3079	Sea Lion Rocks - Forrester	26-Aug-03	S	Y
F3083	North Rocks - Forrester	26-Aug-03		Y
F3091	North Rocks - Forrester	26-Aug-03		Y
F 9 UNSURE	Cape Horn Rocks - Forrester	26-Aug-03	WF	Y
F36 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03		Y
F41 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03	S	Y
F44 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03	WF	Y
F77 UNSURE	Cape Horn Rocks - Forrester	26-Aug-03		Y
F78 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03		Y
F188 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03		Y
F3005 UNSURE	North Rocks - Forrester	26-Aug-03		Y
F3044 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03		Y
F3074 UNSURE	Sea Lion Rocks - Forrester	26-Aug-03		Y
H301	Hazy Is.	27-Aug-03		Y
H302	Hazy Is.	27-Aug-03		Y
H303	Hazy Is.	27-Aug-03	WF	Y
H305	Hazy Is.	27-Aug-03		N
H317	Hazy Is.	27-Aug-03		Y
H322	Hazy Is.	27-Aug-03		Y
H326	Hazy Is.	27-Aug-03	S	Y
H330	Hazy Is.	27-Aug-03		Y
H332	Hazy Is.	27-Aug-03		N
H333	Hazy Is.	27-Aug-03		Y
H334	Hazy Is.	27-Aug-03	WF	Y
H335	Hazy Is.	27-Aug-03		Y
H336	Hazy Is.	27-Aug-03		Y
H337	Hazy Is.	27-Aug-03		Y
H338	Hazy Is.	27-Aug-03		Y
H339	Hazy Is.	27-Aug-03		Y
H342	Hazy Is.	27-Aug-03	WF	Y
H345	Hazy Is.	27-Aug-03		Y
H346	Hazy Is.	27-Aug-03		N
H351	Hazy Is.	27-Aug-03		Y
H355	Hazy Is.	27-Aug-03		Y
H364	Hazy Is.	27-Aug-03		Y
H365	Hazy Is.	27-Aug-03		Y
H367	Hazy Is.	27-Aug-03		Y
H369	Hazy Is.	27-Aug-03	S	Y
H372	Hazy Is.	27-Aug-03		Y
H378	Hazy Is.	27-Aug-03	WF	Y

Appendix V. Continued.

Brand Number	Resight Location	Date	Assoc'n	Photo
H379	Hazy Is.	27-Aug-03		Y
H380	Hazy Is.	27-Aug-03	WF	Y
H389	Hazy Is.	27-Aug-03		Y
H393	Hazy Is.	27-Aug-03		Y
H394	Hazy Is.	27-Aug-03		Y
H399	Hazy Is.	27-Aug-03		Y
H400	Hazy Is.	27-Aug-03		Y
H31_UNSURE	Hazy Is.	27-Aug-03		Y
H398 UNSURE	Hazy Is.	27-Aug-03		Y

Appendix VI. Steller sea lions branded as pups in 2000 and 2002 (Sugarloaf (X) and Marmot (T) islands) and 2001 (Fish Island (E), Seal Rocks (J), and Rogue Reef in Oregon (R)) and resighted in Southeast Alaska May – August 2003. Brand number, resight location, resight date, association (assoc'n; WF = with female, S = suckling), and whether a photograph was taken (Y = yes, N = no).

Brand Number	Resight Location	Date	Assoc'n	Photo
T1	Graves Rocks	02-Jul-03		Y
T23	S. Marble Is.	02-Jul-03		Y
T23	White Sisters	28-Aug-03		Y
T23	White Sisters	29-Aug-03		Y
T25	Graves Rocks	19-May-03		Y
T25	Graves Rocks	20-May-03		Y
T27	Graves Rocks	01-Jul-03		Y
T27	Graves Rocks	30-Aug-03		Y
T33	Graves Rocks	19-May-03		Y
T60	S. Marble Is.	30-Aug-03		Y
T143	Sea Lion Is.	29-Jun-03		Y
T143	White Sisters	28-Aug-03		Y
T148 UNSURE	White Sisters	18-May-03	WF	Y
X89	White Sisters	29-Aug-03		Y
X144	Graves Rocks	01-Jul-03		Y
X191	Graves Rocks	29-Aug-03		Y
X197 UNSURE	Graves Rocks	19-May-03		Y
X197	Graves Rocks	01-Jul-03		Y
X207	S. Marble Is.	20-May-03		Y
X207	S. Marble Is.	30-Aug-03		Y
X207 UNSURE	S. Marble Is.	02-Jul-03		N
X237	Graves Rocks	19-May-03		Y
X237	Graves Rocks	01-Jul-03		Y
E2	Southwest Brothers Is.	17-Jun-03		Y
E18	Graves Rocks	01-Jul-03		Y
E20	Graves Rocks	20-May-03		Y
J37	Graves Rocks	29-Aug-03		Y
J44	S. Marble Is.	20-May-03		Y
J44	Graves Rocks	29-Aug-03		Y
J67	Inian Is.	02-Jul-03		Y
J41 UNSURE	White Sisters	01-Jul-03	WF	Y
115R	Cape Addington	23-Jun-03		Y
158R	Cape Addington	16-May-03		Y
158R	Cape Addington	23-Jun-03		Y
158R	Cape Addington	27-Aug-03		Y